SAFETY DATA SHEET

MOBIL COOLANT EXTRA READY MIXED -24 C

Section 1. Identification

Product name	: MOBIL COOLANT EXTRA READY MIXED -24 C
Product description	: Glycol
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	: Antifreeze/coolant
Uses advised against	: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.
Supplier	: AMPOL AUSTRALIA PETROLEUM PTY LTD ABN 17 000 032 128 29-33 Bourke Rd Alexandria New South Wales 2015 Australia
24 Hour Emergency Telephone	: +61 2 9037 2994/1800 862 115 (CHEMTREC)
Product Technical Information	: 1300364169
Supplier General Contact	: +612 9250-5000
FAX	: +612 9250-5742

ExonMobil

SDS Internet Address

: www.sds.exxonmobil.com

Section 2. Hazard(s) identification

Classification of the substance or mixture	ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Categor	ry 2
GHS label elements		
Hazard pictograms		
Signal word	WARNING	
Hazard statements	H302 - Harmful if swallowed. H373 - May cause damage to organs through prolonged or repeated expe (kidneys)	osure.
Precautionary statements		
General	P101 - If medical advice is needed, have product container or label at hand.P102 - Keep out of reach of children.P103 - Read carefully and follow all instructions.	
Prevention	P260 - Do not breathe vapour. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.	
Response	P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if y feel unwell. Rinse mouth.	you
Disposal	P501 - Dispose of contents and container in accordance with all local, regiona national and international regulations.	l,
Contains	ethanediol	



Section 2. Hazard(s) identification

Other hazards which do not : None known. result in classification

: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Section 3. Composition and ingredient information

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
ethanediol	≥30 - ≤60	107-21-1
2-ethylhexanoic acid, sodium salt	≤1	19766-89-3
disodium tetraborate pentahydrate	≤0.3	12179-04-3
tetrasodium ethylene diamine tetraacetate	≤0.3	64-02-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of neces	sary first aid measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms	s/effects, acute and	<u>delayed</u>			
Potential acute health eff	<u>fects</u>				
Eye contact	: No known sigr	nificant effects or critical hazards.			
Inhalation	: No known sigr	nificant effects or critical hazards.			
Skin contact	: No known sigr	nificant effects or critical hazards.			
Ingestion	: Harmful if swa	llowed.			
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Nota

Section 4. First-aid measures

Over-exposure signs/symp	<u>itoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.
Ingestion	: No specific data.
Indication of immediate mee	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume
Special protective actions for fire-fighters	: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent reignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. **Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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Section 6. Accidental release measures

Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Material will sink. Remove material, as much as possible, using mechanical equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Section 7. Handling and storage

Precautions for safe handling **Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is Advice on general handled, stored and processed. Workers should wash hands and face before occupational hygiene eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Static Accumulator : This material is not a static accumulator. **Conditions for safe storage,** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible including any materials (see Section 10) and food and drink. Store locked up. Keep container incompatibilities tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
ethanediol	Safe Work Australia (Australia, 12/2019). Absorbed through skin. TWA: 10 mg/m ³ 8 hours. Form: Particulate STEL: 104 mg/m ³ 15 minutes. Form: Vapour TWA: 52 mg/m ³ 8 hours. Form: Vapour TWA: 20 ppm 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour ACGIH TLV (United States, 1/2022). STEL: 10 mg/m ³ 15 minutes. Form: Inhalable fraction. Aerosol only. STEL: 50 ppm 15 minutes. Form: Vapor fraction TWA: 25 ppm 8 hours. Form: Vapor fraction
disodium tetraborate pentahydrate	Safe Work Australia (Australia, 12/2019). TWA: 1 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction STEL: 6 mg/m ³ 15 minutes. Form: Inhalable fraction

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	
Environmental exposure controls	:	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measure	<u>es</u>		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.	
Skin protection			
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): Nitrile, minimum 0.38 mm thickness or comparable protective barrier material	
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	

Section 8. Exposure controls and personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	:	Liquid. [Clear]
Colour	:	Blue-Green
Odour	:	Characteristic
Odour threshold	:	Not available.
рН	:	7
Melting point/freezing point	1	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Closed cup: >100°C (>212°F) [Closed cup]
Evaporation rate	:	Not available.
Flammability	:	Ignitable
Lower and upper explosion limit/flammability limit	:	Not available.
Vapour pressure	:	0.09 mm Hg [20 °C] [No Test Method]
Relative vapour density	:	Not available.
Relative density	1	1.05
Solubility in water	:	Complete
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Not available.
Particle characteristics		
Median particle size	4	Not applicable.

Section 10. Stability and reactivity

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Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
Incompatible materials	: strong acids, Strong oxidisers		
Conditions to avoid	: High energy sources of ignition. Excessive heat.		
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Chemical stability	: The product is stable.		
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

		Species	Result	Duration
MOBIL COOLANT EXTRA READY MIXED -24 C	LDLo Oral	Human	1560 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	1847 mg/kg	-
Conclusion/Summary				
Inhalation	: Minimally Toxic. components.	No end point data for	material. Based on as	sessment of the
Dermal	: Minimally Toxic. No end point data for material. Based on assessment of the components.			
Oral	: Slightly toxic Data available. Based on assessment of the components.			
rritation/Corrosion				
Conclusion/Summary				
Skin	: Negligible irritation to skin at ambient temperatures. No end point data for material. Based on assessment of the components.			
Eyes	 May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components. 			
Respiratory	: Negligible hazard at ambient/normal handling temperatures. No end point data for material.			
ensitisation				
Conclusion/Summary				
Skin	: Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.			
Respiratory	: Not expected to be a respiratory sensitizer. No end point data for material.			
<u>Mutagenicity</u>				
Conclusion/Summary	: Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.			
Carcinogenicity				
Conclusion/Summary	: Not expected to cause cancer. No end point data for material. Based on assessment of the components.			
Reproductive toxicity				
Conclusion/Summary	: May damage the unborn child. No end point data for material. Based on assessment of the components.			
Specific target organ toxic	ity (single exposure)	1		
Conclusion/Summary	: Not expected to c material.	ause organ damage [.]	from a single exposure	. No end point data for
<u>Specific target organ toxic</u>	ity (repeated exposu	i <u>re)</u>		
Product/ingredient name		Category	Target o	rgans
Not available.				
Conclusion/Summary			prolonged or repeated nt of the components.	exposure. No end poin
Aspiration hazard			-	
Conclusion/Summary		be an aspiration hazar end point data for ma	d. Based on physico-c terial.	chemical properties of

Section 11. Toxicological information

Contains : S	Sodium tetraborate: Adverse effects on fertility and fetal development have been
o e a R E a	bserved in laboratory animals. ETHYLENE GLYCOL (EG): Repeated high oral exposure has caused kidney damage, neurological effects, degeneration of the liver ind changes in blood chemistry and circulating blood cells in laboratory animals. Repeated overexposure has the potential to cause similar toxic effects in humans. EG causes developmental and reproductive effects at high dose levels in laboratory nimals. The relevance of these findings to humans is uncertain. MONO- AND DI-ETHYLENE GLYCOLS: Oral exposure may produce kidney damage.

Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

<u>Toxicity</u>		
Conclusion/Summary		
Acute toxicity	lot expected to be harmful to aquatic organisms.	
Chronic toxicity	lot expected to demonstrate chronic toxicity to aquatic organisms	
Persistence and degradabi		
Biodegradability	laterial Expected to be readily biodegradable.	
Atmospheric Oxidation	Naterial Expected to degrade rapidly in air	
Bioaccumulative potential		
Conclusion/Summary	laterial Potential to bioaccumulate is low.	
<u>Mobility in soil</u>		
Mobility	laterial Expected to remain in water or migrate through soil.	

Other adverse effects : No known significant effects of	or critical nazards.

Disposal methods

Other ecological information

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information ADG **IMDG** ΙΑΤΑ **UN number** Not regulated. Not regulated. Not regulated. **UN proper** shipping name **Transport hazard** class(es) 8/10 Date of issue/Date of revision : 27 December 2022 Version: 1 Date of previous issue : No previous edition

Section 14. Transport information

Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information	
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO	: Not available.

instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Med	dicines and Poisons
5	
Inventory list	
Australia inventory (AIIC)	: All components are listed or exempted.
Canada inventory (DSL-NDSL)	: At least one component is not listed.
China inventory (IECSC)	: All components are listed or exempted.
Japan inventory (CSCL)	: All components are listed or exempted.
Japan inventory (ISHL)	: At least one component is not listed.
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
United States inventory (TSCA 8b)	: All components are active or exempted.

Section 16. Any other relevant information

<u>History</u>	
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Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group SUSMP = Standard Uniform Schedule of Medicine and Poisons

Section 16. Any other relevant information

UN = United Nations

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

References

DOC ID

: Not available.

Indicates information that has changed from previously issued version.

: STKNO50040

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